Title (en)

Integrated optical semiconductor device

Title (de)

Integrierte optische Halbleiteranordnung

Title (fr)

Dispositif semi-conducteur optique intégré

Publication

EP 0446056 B1 20000105 (EN)

Application

EP 91301921 A 19910307

Priority

- JP 5544791 A 19910228
- JP 5557790 A 19900307

Abstract (en)

[origin: EP0446056A2] In an integrated optical semiconductor device having an InGaAsP optical waveguide (13) and an InGaAs light absorption layer (14) integrated together therein, the light absorption layer (14) is formed to become gradually thicker in a traveling direction of light in the optical waveguide so that the effective absorption coefficient of the light absorption layer (14) with respect to the optical waveguide (13) can be set to become gradually larger in the traveling direction in the optical waveguide. <IMAGE> <IMAGE>

IPC 1-7

H01L 27/15; G02B 6/42

IPC 8 full level

G02B 6/122 (2006.01); **G02B 6/42** (2006.01); **H01L 27/15** (2006.01); **H01S 5/00** (2006.01)

CPC (source: EP US)

G02B 6/42 (2013.01 - EP US); **H01L 27/15** (2013.01 - EP US)

Cited by

CN111684342A; CN1317572C; US6819839B2; WO2004010183A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0446056 A2 19910911; **EP 0446056 A3 19940105**; **EP 0446056 B1 20000105**; DE 69131885 D1 20000210; DE 69131885 T2 20000615; JP H04211209 A 19920803; US 5121182 A 19920609

DOCDB simple family (application)

EP 91301921 A 19910307; DE 69131885 T 19910307; JP 5544791 A 19910228; US 66577591 A 19910307